



Product Introduction

A Smart Weather-based Irrigation Controller

Version 1.2



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Nxeco is a smart, weather-based, irrigation controller.

Nxeco combines a standard irrigation controller, which operates manually on site; and a weather-based controller, which operates via a smart mobile device.

Standard Irrigation Control Irrigation Features

- 12-zone irrigation control
- Independent zone-specific programming for separated schedules
- A water budget adjustment for five days
- Manual Rain delay maximum to 72 hours
- Memory function that preserves the irrigation program even if power lost

Smart Weather-base Irrigation Control

All of the above features, plus:

Weather-based irrigation control

- Local weather forecasts act to prevent irrigation on rainy days
- Local forecasts are used by an algorithm to adjust irrigation times for optimal efficiency

Customized irrigation based on type of vegetation

- Irrigation schedule based on individual plant's need
- Easy to load various plant's watering requirement from our continuously expanding plant database

Internet access on Nxeco

- Embedded Wi-Fi access to AP (IEEE802.11b/g/n)
- External data card access to mobile network via Ethernet port to Internet
- Weather-based irrigation modification
- Easily modify irrigation times to comply with various city watering restrictions

Mobile operation on Nxeco

- Check watering status anytime and from anywhere
- Control irrigation anytime and from anywhere
- Setup irrigation schedules anytime and from anywhere
- Personal water saving service that complies with local watering restrictions
- Nxeco APP operation on iOS and Android based device

Accommodating watering restrictions

- Operation on specified day(s)-of-week schedule; either even day or odd day scheduling
- The ability to set irrigation runtimes to avoid watering during a prohibited time of day
- Complete shutoff (e.g. on/off switch) to accommodate outdoor irrigation prohibition

Nxeco mechanical specs

- Size: 6.5 X 9.8 X 1.4 (inches)
- Weight: 1.2 pounds
- AC Input: 24VAC, 60Hz, 750mA (adapter included)
- Valve output: 24VAC, max 8VA
- Indoor operating temperature range*: 32F to 122F / 0° to 50° C
- Outdoor Operation temperature range*: 14F to 130F / -10° to 55° C
- Easy installation requiring just three stews (included)
- Operates either indoor or outdoor (in one water-resistant box)

Panel, Ports and LEDs on Nxeco

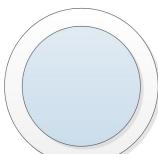
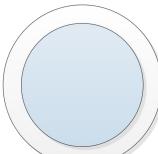
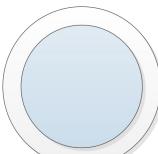
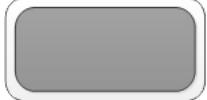
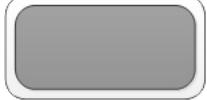
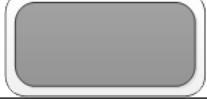
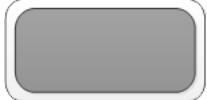
There is one Dial, eight buttons, and two LED lights on the Nxeco Panel.

- **Dial List:**



Dial Name	Functions
Auto Run	<ul style="list-style-type: none">• Runs programmed watering• Smart terminals (smart phone, PAD, even PC) operates this controller
OFF	<ul style="list-style-type: none">• Turns off watering
Setting	<ul style="list-style-type: none">• Set up Date, Clock manually• Access Smart Wi-Fi to AP (Access Point)• Register Nxeco controller on cloud server
Special Features	<ul style="list-style-type: none">• Reserved for more special features
Weather Adjustment	<ul style="list-style-type: none">• Check auto-setting watering budget % in cloud within weather forecast• Change the watering budget % manually
Schedule	<ul style="list-style-type: none">• Check current watering schedule• Setup basic watering scheduling manually
Rain Delay	<ul style="list-style-type: none">• Delays watering from minutes up to maximum 72 hours
Manual Watering	<ul style="list-style-type: none">• Set instant watering runtimes• Run watering zone by zone

- **Button List:**

Button Name	Sign	Functions
Zone 1-4	ZONE 1-4 	<ul style="list-style-type: none"> • Setup Zone 1, Zone 2, Zone 3, Zone 4
Zone 5-8	ZONE 5-8 	<ul style="list-style-type: none"> • Setup Zone 5, Zone 6, Zone 7, Zone 8
Zone 9-12	ZONE 9-12 	<ul style="list-style-type: none"> • Setup Zone 9, Zone 10, Zone 11, Zone 12
Operation One		<ul style="list-style-type: none"> • Setup and more (Edit, Save, Next, +, -,....)
Operation Two		<ul style="list-style-type: none"> • Setup and more
Operation Three		<ul style="list-style-type: none"> • Setup and more
Operation Four		<ul style="list-style-type: none"> • Setup and more
Smart Wi-Fi		<ul style="list-style-type: none"> • Set up Wi-Fi access to securitized AP

LED List:

LED Name	Sign	Functions
Smart Wi-Fi	 <i>Smart Wi-Fi</i>	<ul style="list-style-type: none"> • Off: Wi-Fi access off • Flash: Wi-Fi accessing to securitized AP • On: Wi-Fi access to AP successfully
Internet	 <i>Internet</i>	<ul style="list-style-type: none"> • Off: Fail to link Nxeco server • On: Link to Nxeco server successfully

- Port List:

Name	Functions
24V AC	Input 24v AC power
12 Zone Ports	12 ports plus 2 common ports driving 12 valves
Ethernet Port	Connect to Ethernet Cable or Mobile card
USB port	Connect to USB cable

Tech and Service Support

- Life-time free weather aware and optimal irrigation procedure
- Life-time free Botanist advices on line and updated irrigation procedure
- 1-Year standard hardware warranty

Nxeco, Inc. www.Nxeco.com

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Tel: 949-813-7909.

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference.
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.